

Search Strategy  
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Method for manufacturing low molecular polysaccharide and oligosaccharide thereof.

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A manufg. method of low mol. polysaccharide or oligosaccharide thereof is provided; said method saves time and money by using titanium oxide as photocatalyst. The low mol. polysaccharide or oligosaccharide thereof can be used in foods, cosmetics, medicines; 0.5-20 wt.% of polysaccharide such as chitin, chitosan, pectin, inulin, cellulose, gum, starch, glycogen, heparin, etc. is solubilized in a proper solvent such as distd. water. 0.01-5 Wt.% of photocatalyst such as titanium oxide, zinc oxide, iron oxide, cadmium sulfide, zinc sulfide or hydrogen peroxide is added to the polysaccharide soln. (or powder), and then said soln. or powder is exposed to UV light or radiation (alpha, beta or gamma ray) or electron beam.

Keywords

polysaccharide oligosaccharide manuf photocatalyst

Index Entries

Polysaccharides, preparation

method for manufg. low mol. polysaccharide

Electron beams

Gamma ray

Gums and Mucilages

UV radiation

Oligosaccharides, preparation

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Cosmetics

Drugs

Food

method for manufg. low mol. polysaccharide and oligosaccharide thereof as additives

Catalysts

photochem.; titanium oxide in method for manufg. low mol. polysaccharide and oligosaccharide thereof

1306-23-6, uses

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method for manufg. low mol. polysaccharide and oligosaccharide thereof